EJERCICIO VECTORES EN EL PLANO

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Determine u + v, u - v, 2u y 3u - 2v.
(a) \mathbf{u} = (2,3), \mathbf{v} = (-2,5)
(b) \mathbf{u} = (0,3), \mathbf{v} = (3,2)
(c) \mathbf{u} = (2,6), \mathbf{v} = (3,2)
Solución
(a)
      sage] u= vector([2,3])
      sage] v= vector([-2,5])
      sage] u+v
         (0, 8)
      sage] u-v
         (4, -2)
      sage] 2*u
         (4, 6)
      sage] 3*u-2*v
         (10, -1)
(b)
      sage] u= vector([0,3])
      sage] v= vector([3,2])
      sage] u+v
         (3, 5)
      sage] u-v
         (-3,1)
      sage] 2*u
         (0, 6)
      sage] 3*u-2*v
         (-6,5)
(c)
      sage] u= vector([2,6])
      sage] v= vector([3,2])
      sage] u+v
         (5, 8)
      sage] u-v
         (-1,4)
      sage] 2*u
         (4, 12)
      sage] 3*u-2*v
         (0, 14)
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